

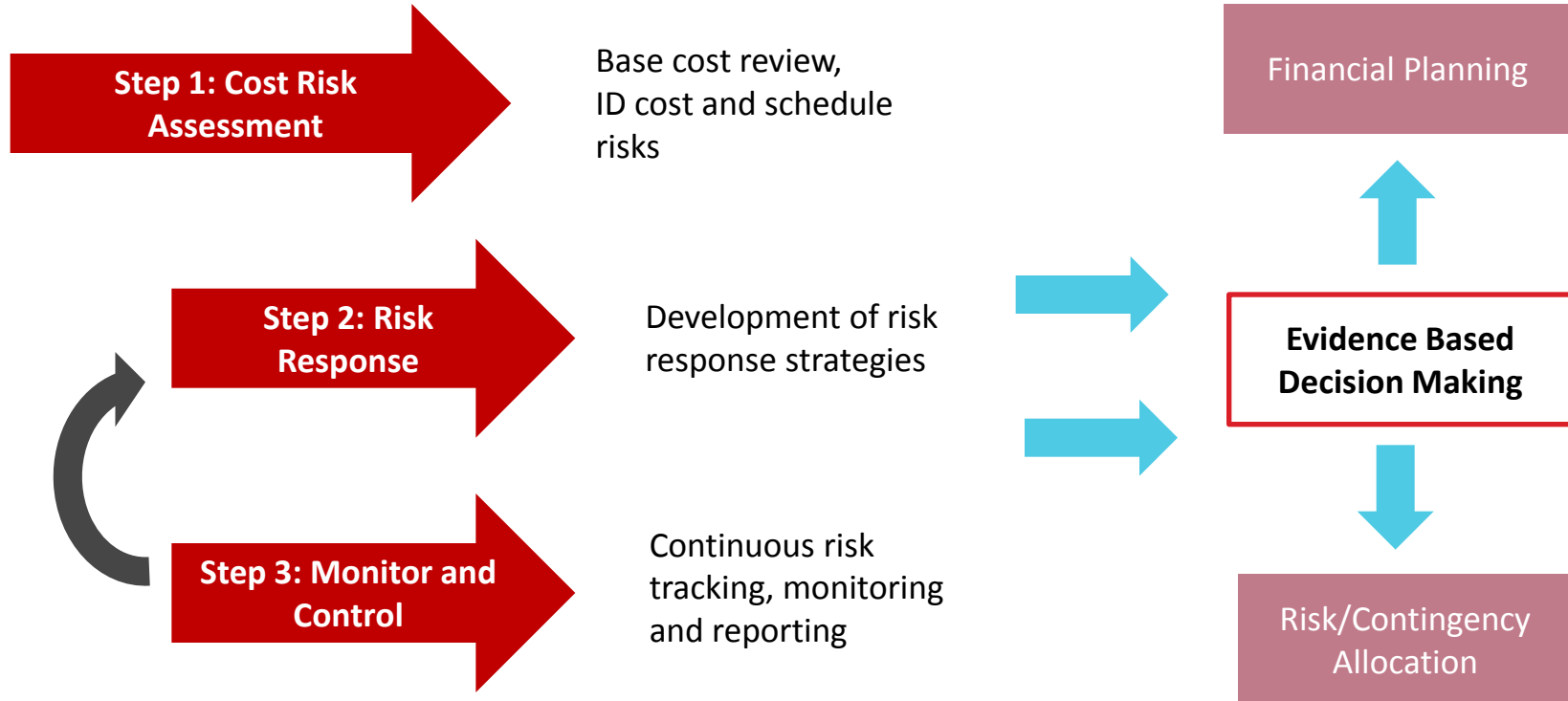


HART Board

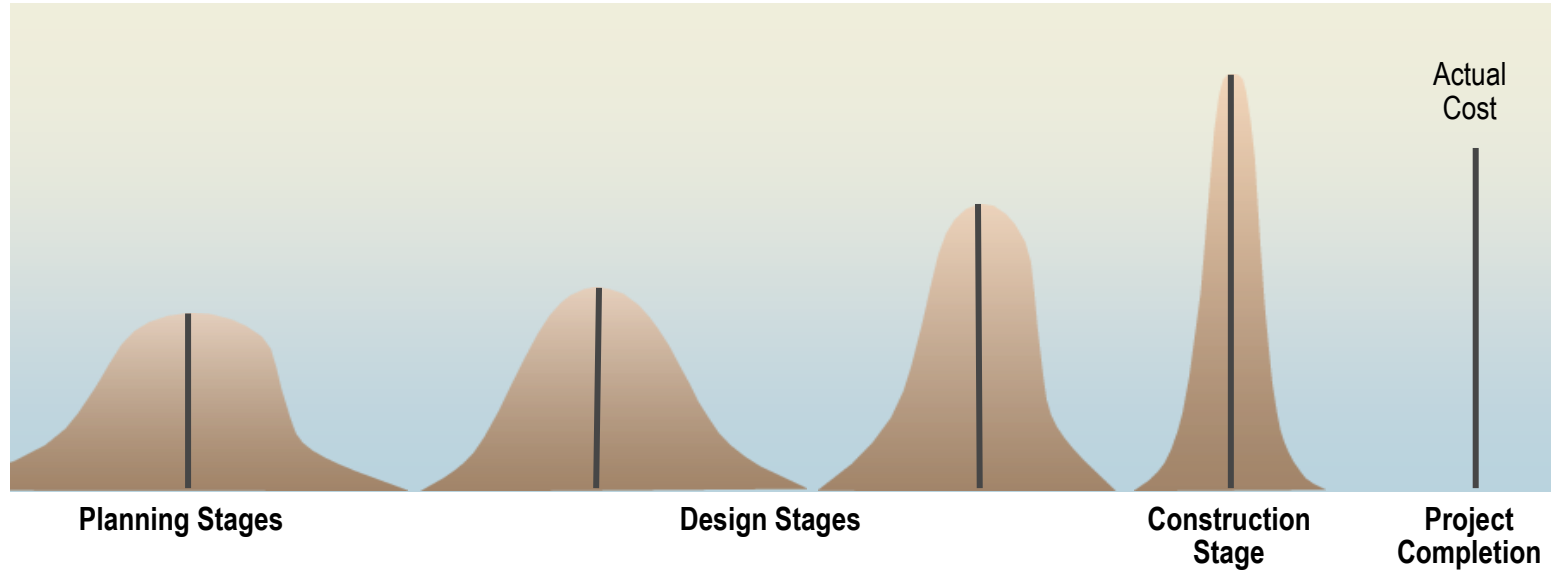
Risk Management Program Update

for October 27, 2016

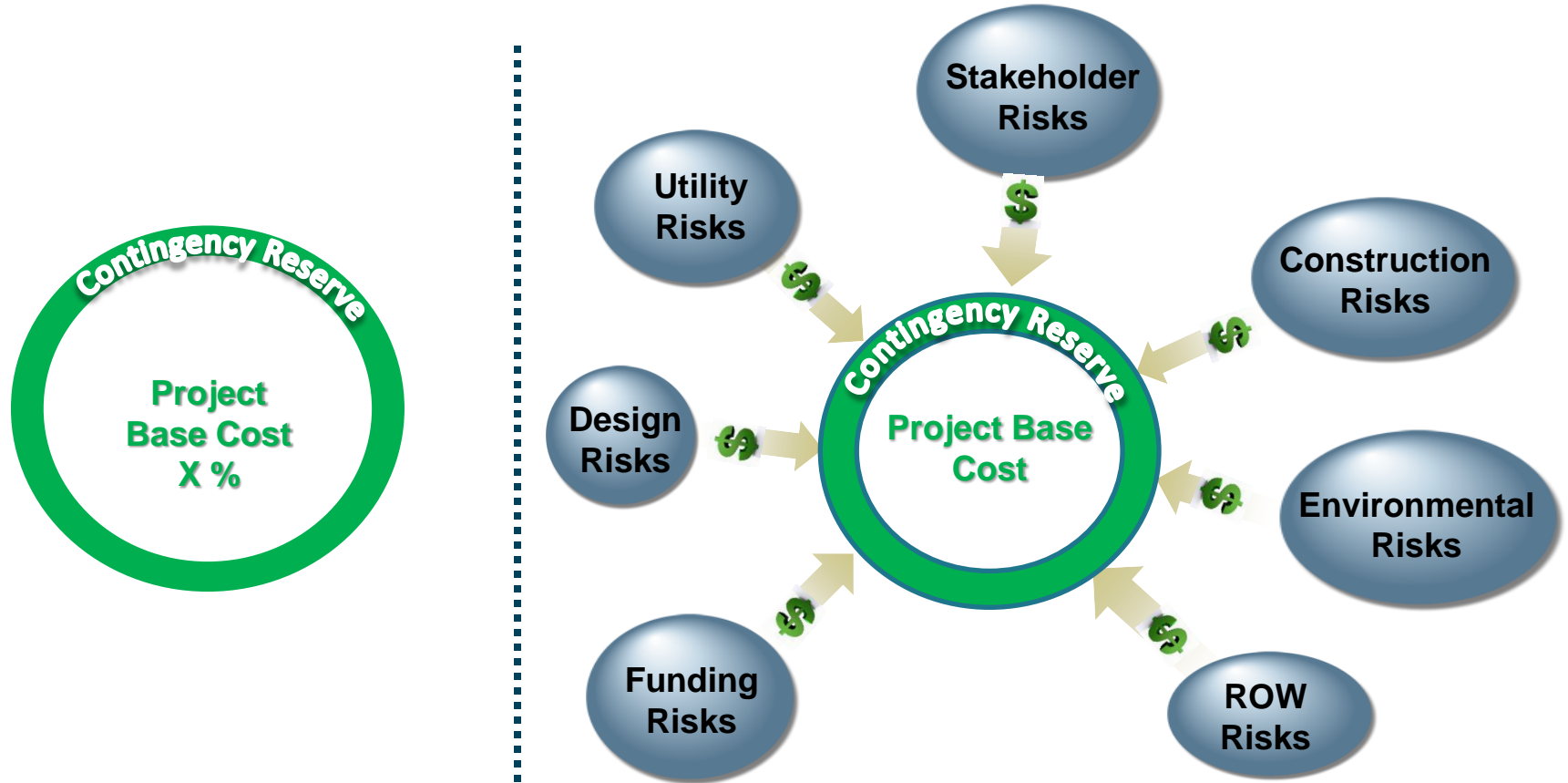
Risk Management Process



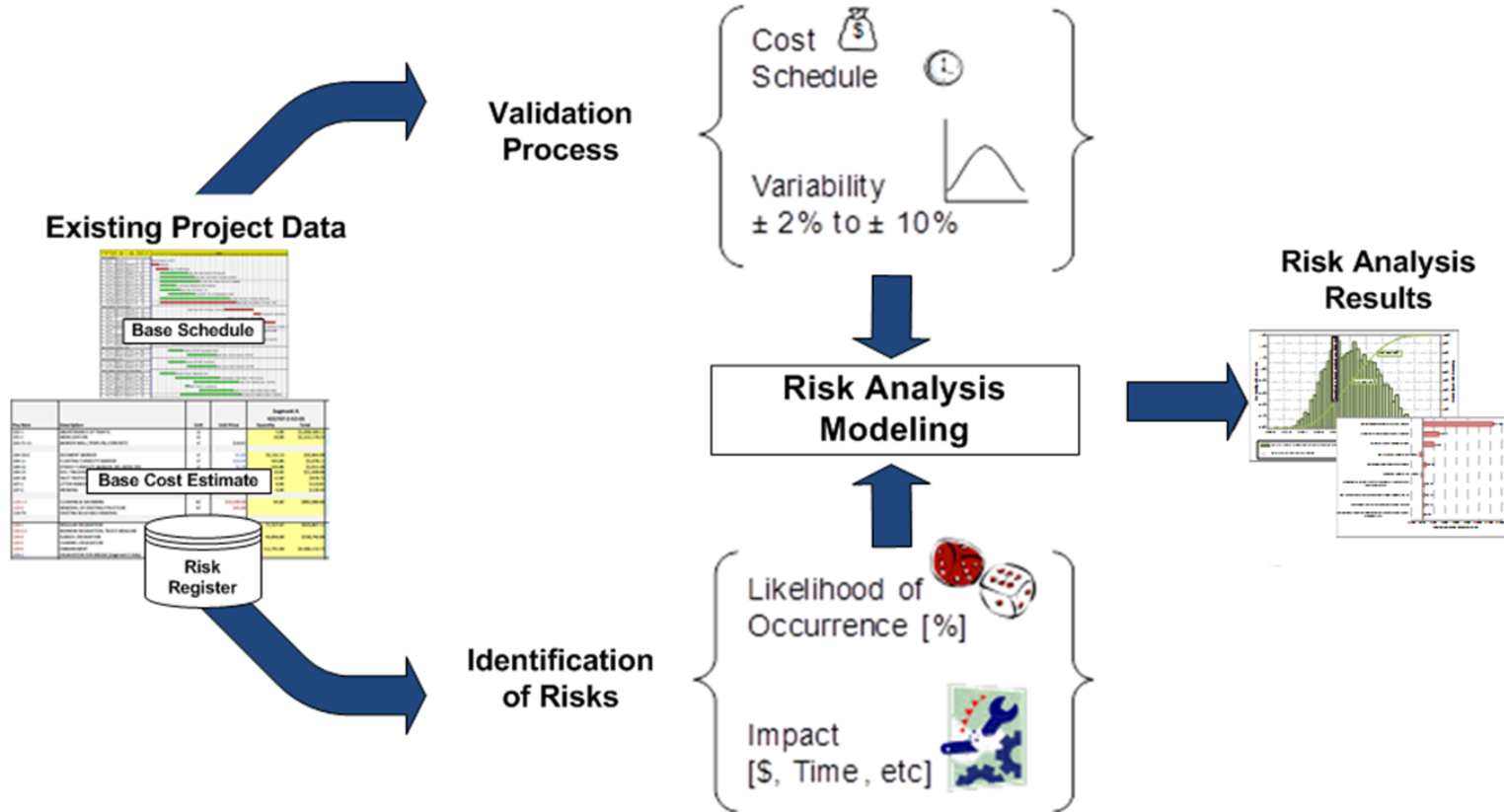
Project Cost Life Cycle



Traditional vs. Risk-Based Estimating



Process



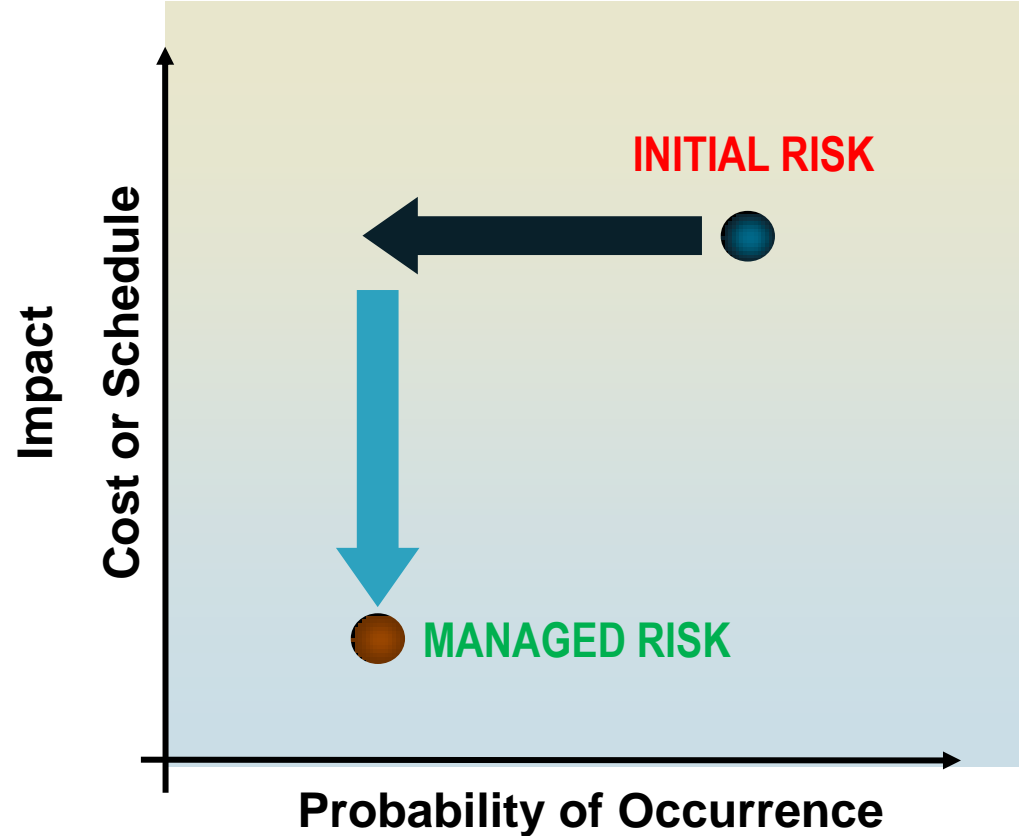
Step 1: Workshops

- Review base cost and schedule.
- Identify and quantify potential risks.



Step 2: Risk Response Strategy

Threats Risk Factors that Increase Cost or Schedule	Opportunities Risk Factors that Reduce Cost or Schedule
Avoid	Exploit
Transfer	Share
Mitigate	Enhance
Accept	



Pearl Highland Garage, Bus Terminal

Risk ID: DB275 SIT 40.04_02 Wahawa Stream Work Find Risk

Pre Response Post Response Monitoring and Control

Risk Identification

Project	SOC	SOC Number	SOC Number Count
DB275	SIT	40.04	62

Threat/Opportunity

Cost	Threat
Schedule	Threat

VS

H

L

Probability

Pre-Response Risk Information

Status: Active [X]

FTA Risk Category: Requirements [v]

Date Identified: 7/15/2016

Firmware Activity No: 275

Modeling Notes:

Summary Description: Wahawa Stream Work

Risk Trigger:

Issue Number: <Blank>

Detailed Description:

Cause: Delayed start of construction. The risk is due to completion at the second office hours inspection.

Pre-Response Risk Quantification

Concrete Risk	Critical Path Schedule Impact	Event Cost	Total Cost
Probability 70%	Expected Value Expected Value	\$1,000	\$2,000
Min Most Likely Max (\$M)	(\$M) (\$M) (\$M)	1.00 2.00 3.00	

\$

Mo

Pearl Highland Garage, Bus Terminal

Risk ID: DB275 SIT 40.04_02 Pre Risk Response Monitoring and Control

Pearl Highland Garage, Bus Terminal

[Find Risk](#)

Risk ID: DB275 SIT 40.04_02 Wahaiwa Stream Work

[Pre Response](#) [Post Response](#) [Monitoring and Control](#)

Post-Response Risk Information

Status: Active

Additional Cost to Respond: \$0.000

Strategy: Mitigate

Response Plan:
The compensatory mitigation plan, 401, and 404 permits have been obtained and included in the RFP. The CLOMR (no net rise) permit request has been transferred to the design builder.

ThreatOpportunity

Cost: Threat

Schedule: Threat

Post-Response Risk Quantification

☐ Discrete Risk ☐ Critical Path Schedule Impact

Event Cost				Total Cost
Min (\$M)	Most Likely (\$M)	Max (\$M)	Expected Value Impact (\$M)	Expected Value Impact (\$M)
\$1.000	\$2.000	\$3.000	\$1.000	\$2.994

Schedule			
Min (MO)	Most Likely (MO)	Max (MO)	Expected Val. Impact (MO)
1.00	2.00	3.00	1.00

Pearl Highland Garage, Bus Terminal

[Find Risk](#)

Risk ID: DB275 SIT 40.04_02 Wahaiwa Stream Work

[Pre Response](#) [Post Response](#) [Monitoring and Control](#)

Post-Response Risk Information

Status: Active

Additional Cost to Respond: \$0.000

Strategy: Mitigate

Response Plan:
The compensatory mitigation plan, 401, and 404 permits have been obtained and included in the RFP. The CLOMR (no net rise) permit request has been transferred to the design builder.

ThreatOpportunity

Cost: Threat

Schedule: Threat

Post-Response Risk Quantification

☐ Discrete Risk ☐ Critical Path Schedule Impact

Event Cost				Total Cost
Min (\$M)	Most Likely (\$M)	Max (\$M)	Expected Value Impact (\$M)	Expected Value Impact (\$M)
\$1.000	\$2.000	\$3.000	\$1.000	\$2.994

Schedule			
Min (MO)	Most Likely (MO)	Max (MO)	Expected Val. Impact (MO)
1.00	2.00	3.00	1.00

Pearl Highland Garage, Bus Terminal

[Find Risk](#)

Risk ID: DB275 SIT 40.04_02 Wahaiwa Stream Work

[Pre Response](#) [Post Response](#) [Monitoring and Control](#)

Monitoring and Control Risk Information

Detailed Description:

[Go Back To Pre-Response Risk Information](#) [Go Forward To Post-Response Risk Information](#)

Monitor and Control

Pearl Highland Garage, Bus Terminal

Find Risk

Risk ID: DB275 SIT 40.04_02

Wahiawa Stream Work

Pre Response

Post Response

Monitoring and Control

Monitoring and Control Risk Information

Risk Owner:

John Moore / Jon Nouchi

Risk Assignment:

Owner

Status Interval:

Quarterly

Date MC Last Updated:

4/28/2016

Last Review Date:

Select Risk for Email Update:

☐

Next Review Date:

Risk Aging

From Date

To Date

6/1/2018

Review Comments:

Mahalo!